

Nuclear Magnetic Resonance Spectrometer,
by V. M. Mamayev.
RUSSIAN, per, Patent No 172116.
•FTD-HT-TT-701

115

Sci - Nucl Sci & Tech
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V. M. Mamayev

Kinetics of Alkaline Hydrolysis of the Methyl
Ester of Alanyl Glycyl Glycine in Aqueous Solution,
by D. G. Knorre, G. V. Kukushkina, V. P. Mamayev,
5 pp.

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V. P. Mamayev, O. P. Shkurko, 4 pp.

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Structure of Chlorophenoxyacetic Acids, by
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Some β -Amino Acids of the Thiophene Series, by
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Nov. (Diptera, Itonididae) with Reduced Wings, by
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"Targets on the Ocean," by Naval Capt 1st Rank
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1. Agriculture--USSR
2. Fertilizers--Development
1. Mamchenkov, I. P.
- II. JPRS-6583
- III. Joint Publications Research
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Order from OTS or SLA \$3.60 61-20139

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DESCRIPTORS: *Alkyl radicals, *Aviation fuels, Production, Chemical reactions, *Hydrocarbons, Thermodynamics, *Ethylenes, Heat of reaction, Octanes, Gasoline, Antiknock, Sulfuric acid, Fractionation, Esters, Chain reactions.

(Materials--Fuels, TT, v. 7, no. 7)

61-20139

1. Title: Isoparaffins
1. Mamedaliev, Yu. G.

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ALKYLATION OF AROMATIC HYDROCARBONS.
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DESCRIPTORS: *Hydrocarbons, Chemical reactions, Production, *Aviation fuels, *Alkyl radicals, Chemical engineering, Sulfuric acid, Catalysts, Fuel oils, Refineries, Benzenes, Gases, Pyrolysis, Gasoline, Kerosene, Octanes, Coal, Coke.

(Materials--Fuels, TT, v. 7, no. 8)

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ALKYLATION OF AROMATIC [HYDROCARBONS]
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Order from OTS or SLA \$2.60 61-20138

Trans. of mono. The Alkylation Reaction in the Production of Aviation Fuels, Baku, 1945, pt. 2, p. 71-102.

DESCRIPTORS: *Alkyl radicals, Benzenes, Butenes, Butadienes, Fractionation, Gases, Pyrolysis. *Aviation fuels, Production, *Hydrocarbons, Reagents, Ethylenes, Catalysts, Octanes, Gasoline.

(Materials--Fuels, TT, v. 7, no. 7)

61-20138

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Aromatic Hydrocarbons Produced Through
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AF 1186752

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Production of Aromatic Hydrocarbons by Catalytic Treatment on the Products From Thermal Cracking and Pyrolysis of Petroleum, by A. V. Topchiev, G. M. Mamedaliev, S. M. Aliev, 4 pp.

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Catalytic Transformations of Individual Paraffins
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RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 11,
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Jun 60

Catalytic Transformations of Individual Naphthene
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The Catalytic Reforming of the Light Oil Obtained
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Preparation of Methyl Chloride From Natural Gas,
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ISOMERIC TRANSFORMATION OF AYLENES OVER
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THE PRESENCE OF BENZENE, by Yu. G. Mamedaliev,
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Suleimanov, 3 pp.

Full tr

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ALKYLATION OF ISOPARAFFINS. [1961] [36]p.
163 refs.
Order from OTS or SLA \$3.60

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Trans. of mono. The Alkylation Reaction in the Production of Aviation Fuels, Baku, 1945, pt. 3, p. 103-162.

DESCRIPTORS: *Alkyl radicals, *Aviation fuels, Production, Chemical reactions, *Hydrocarbons, Thermodynamics, *Ethylenes, Heat of reaction, Octanes, Gasoline, Antiknock, Sulfuric acid, Fractionation, Esters, Chain reactions.

(Materials--Fuels, TT, v. 7, no. 1)
8

61-20139

1. Title: Isoparaffins
1. Mamedaliev, Yu. G.

201425

Office of Technical Services

Mamedaliev, Yu. G.
ALKYLATION OF AROMATIC [HYDROCARBONS]
(CONTINUATION). [1961] [28]p. 163 refs.
Order from OTS or SLA \$2.60

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Trans. of mono. The Alkylation Reaction in the Pro-
duction of Aviation Fuels, Baku, 1945, pt. 2, p. 71-102.

DESCRIPTORS: *Alkyl radicals, Benzenes, Butenes,
Butadienes, Fractionation, Gases, Pyrolysis, *Avia-
tion fuels, Production, *Hydrocarbons, Reagents,
Ethylenes, Catalysts, Octanes, Gasoline.

(Materials--Fuels, TT, v. 7, no. 8)

61-20138

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ALKYLATION OF AROMATIC HYDROCARBONS.
[1961] [44]p. 163 refs.
Order from OTS or SLA \$4.60 61-20137

Trans. of mono. The Alkylation Reaction in the Pro-
duction of Aviation Fuels, Baku, 1945, pt. 1, p. 3-71.

DESCRIPTORS: *Hydrocarbons, Chemical reactions,
Production, *Aviation fuels, *Alkyl radicals, Chemical
engineering, Sulfuric acid, Catalysts, Fuel oils,
Refineries, Benzenes, Gases, Pyrolysis, Gasoline,
Kerosene, Octanes, Coal, Coke.

(Materials--Fuels, TT, v. 7, no. 8)

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Doklady, 1953, v. 11, no. 12, p. 811-817.

DESCRIPTORS: *Isoprene, *Pentene, Molecular struc-
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(Chemistry--Organic, TT, v. 10, no. 2)

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- I. Mamedaliev, Yu. G.
- II. Delta, M. A.
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- IV. K-H-10010-a
- V. Kresge-Hooker Science
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Mamedaliev, Yu. G., Dalia, M. A. and others.
CATALYTIC DEHYDROGENATION OF ISOPENTENES
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Order from K-H \$11.00

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[Baku]. Doklady, 1956, v. 12, no. 8, p. 547-552.

DESCRIPTORS: *Isoprene, *Pentenes, Molecular struc-
ture, *Catalysts, Dehydrogenation.

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II. Dalia, M. A.
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Alkylation and Dealkylation of Benzene and
its Homologs in Presence of Aluminosilicates,
by Yu. G. Mamedaliev, G. M. Mamedaliev, 6 pp.

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No 8, Aug 1956, pp 986-991.

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Jul 57

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Catalytic Dehydrogenation of the Isopentane
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RUSSIAN, thrice-mo per, Dok Ak Nauk Azerbaydzhan
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icheskikh Nauk. Izvestiya, 1946, p. 458-460.

DESCRIPTORS: *Benzenes, *Alkyl radicals, Propenes,
Chemical reactions, Aluminum compounds, Silicates,
Clay, Catalysts, Catalysis.

Experiments of alkylation of benzene with a gaseous
mixture containing 17-19% propane and around 77%
propene in the presence of activated gumbrin clay are
reported. Under 40 atm pressure at an hourly space
velocity of 0.5 and a mole ratio of benzene to propene
of 1:0.45 most of the benzene reacted at 350° was con-
(Chemistry--Organic, TT, v. 7, no. 7) (over)

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(PS-6005)

The Development of Science in Azerbaijan
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1960, 139 pp.

JPRS 6977

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Demethylation and Isomerization of o-Xylene over
Aluminosilicates; by A. V. Topchiev, G. M. Ma-
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RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
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No 4, Jul/Aug 1956, pp 781-784.

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Cationic Polymerization of Nuclear-Methylated
Styrenes, α -Methylstyrenes and
Vinylisopropenylbenzenes in the Presence of TiCl_4 .
by Tn. G. Mamedaliev, S. M. Aliev, et al.
RUSSIAN, per, Dok Ak Nauk Azerbaidzhanskoi SSR
Vol XX, No 1, 1964, pp21-26.
ATS-93R77R

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Z. A. Mamedova, 4 pp.

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1957, pp 1063-1066.

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Use of Siloxanes as Anti-Foam Additives in Lubricating Oils, by Ye. G. Kuznetsov, A. M. Kuliev, L. S. Kuznetsov.

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Assoc Tech Sv RJ-153

Scientific - Chemistry

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The Oxidation of Isocyanides with Air
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RUSSIAN, per, Azerbaidzhan'skii Khimicheskiy
Zhurnal, No 5, 1962, pp 29-40.
UDC 54-65-10235

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The Alkylation of Cycloparaffins With Olefins,
by Yu. G. Mamedaliev, A. Kuliev.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXXXVIII, No 3,
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Assoc Tech Sv RJ-115

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(SF-1878)

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JPRS 13876

SCI - MISC
MAY 62

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Mamedaliev, Yu. G., Mamedaliev, G. M., Aliev, S. M., and Guseinov, N. I.
PREPARATION OF RING-METHYLATED STYRENES, α -METHYLSTYRENES AND VINYLISOPROPENYL-BENZENE BY HETEROGENEOUS VAPOR-PHASE ALKYLATION AND DEHYDROGENATION OF AROMATIC HYDROCARBONS IN A FLUIDIZED BED OF OXIDE CATALYSTS. [1963] 6p
Order from ATS ATS-86Q71R

Trans. of Akad[emiya] Nauk Azerbaidzhan[skoi] SSR [Baku]. Dokl[ady] 1963, v. 19, no. 1, p. 13-18.

DESCRIPTORS: *Styrenes, Methyl radicals, Vinyl radicals, Propenes, *Benzene derivatives, Vapors, Alkylation, Dehydrogenation, Fluidized solids, *Catalysts, Oxides.

(Chemistry--Organic, TT, v. 10, no. 10)

63-22586

1. Title: α -Methyl styrene
2. Title: Vinyl isopropenyl benzene
- I. Mamedaliev, Yu. G.
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- VI. Associated Technical Services, Inc., East Orange, N. J.

125237

Office of Technical Services

The Catalytic Reforming of the Light Oil Obtained
from the Pyrolysis of Oil Distillates, by Yu. G.
Mamedaliyev, G. M. Mamedaliyev, G. N. Suleimanow,
D. D. Kichiyeva, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol XXXIX, No 3,
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(DC-3791).

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JPRS 3455

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Jul 60

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and Their Transformation Into Halogenated
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29 pp.

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Scientific - Fuels, Petroleum
Economic - Fuels, Petroleum

Preparation of Aromatic Hydrocarbons by the Catalytic Treatment of the Products of the Coking of Coal and of the Pyrolysis and Thermal Cracking of Petroleum, by A. V. Topchiyev, G. M. Mamedalyev, S. M. Alyev, 12 pp.

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CB

Sci -
May 61

153, 253

Production of Aromatic Hydrocarbons by Catalytic processing of Thermally Cracked Kerosene in the Presence of Light Oil from the Cracking of a Petroleum Stock, by G. M. Memedalyev, S. M. Alyev, 6 pp.

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Sci-Chem

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Chlorination of Methane in a Boiling Layer of
Catalyst, by Yu. G. Mamedalyev, M. M. Guseinov,
T. A. Mekhtyeva, 4 pp.

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Oct 59

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Mamedli, M. G.
CATALYTIC DESULFURIZATION OF GASOLINE, I.
[1961] 5p. 22 refs.
Order from OTS or SLA \$1.10

61-18242

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1965, v. 15
[no. 1/2] p. 62-68.

DESCRIPTORS: Catalysts, *Gasoline, Sulfur compounds,
Fuels, Clays, Hydrocarbons, Decomposition, Separation.

A study of the suitability of 12 samples of clays from four regions on the Apsheron peninsula in USSR for catalytic desulfurization of gasoline showed that some natural clays can be used without activation for this process, effecting removal of up to 88% of the sulfur from samples with an initial sulfur content of 0.059% at 400°C. However, at this temperature partial cracking may occur and the optimal conditions are thought (Materials--Fuels, TT, v. 6, no. 8) (over)

61-18242

1. Title: Desulfurization
I. Mamedli, M. G.

Office of Technical Services

Mamedli, M. G.
SYNTHETIC OILS FROM CRACKED DISTILLATES.
[1961] 8p. 11 refs.
Order from OTS or SLA \$1.10

61-16984

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1943, v. 16,
p. 143-150.

DESCRIPTORS: *Lubrication, *Oils, *Waxes, Decom-
position.

The best lubricating oils, satisfying the requirements
for aviation oils with respect to viscosity index, oxida-
tion stability, low pour point and low specific gravity,
as well as high flash point, are obtained from products
of cracking paraffin wax. Polymerization of cracked
distillates to synthetic lubricating oils in the presence
of aluminum chloride takes place not only at low tem-
peratures 125-130°. The qualitative and quantitative
characteristics are identical in both cases. At the
(Chemistry--Organic, TI. v. 6, no. 8) (over)

61-16984

I. Mamedli, M. G.

Office of Technical Services

Mamedli, M. G. and Alev, M. S.
SYNTHETIC FUELS PRODUCTION TECHNOLOGY
(S. Voprosa o Tekhnologii Proizvodstva Sinteticheskikh
Topliv). [1961] [12]p. 5 refs. AF 1419499.
Order from OTS or SLA \$1.60

61-28351

- I. Title: T-1 fuel
- I. Mamedli, M. G.
- II. Alev, M. S.
- III. AF-1 419 499

Trans. of [Izvestiya Vysshikh Uchebnykh Zavedenii].
Neft' i Gaz (USSR) 1959 [v. 2] no. 2, p. 67-74.

DESCRIPTORS: Industrial production, Chemical analysis, *Jet engine fuels, Fractionation, *Hydrocarbons, Decomposition, Aluminum compounds, Chlorides, Catalysis, Catalysts, Distilling plants, Temperature, Pyrolysis, *Fuels.

197277

Tests showed that it is possible to produce high quality T-1 jet fuel from the middle fractions of light thermal cracking products. The established optimum conditions for catalytic conversion of the hydrocarbons contained (Engineering--Chemical, TT. v. 7, no. 7) (over)

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The Temperature and Pressure Dependence
of the Specific Heat c_p of Water, by
A. M. Mamedov.

RUSSIAN, per, Teplotoenergetika, 1963, No 5, pp 69-70.

ILL. RTS 2329 (On Loan or Purchase)

OTS TP-65-6531

A. M. Mamedov

Aug 65

288,858

CEA-tr-R-1374 Uncl.

EQUATION D'ETAT DE L'EAU LOURDE D_2O D'APRES
LES DONNEES EXPERIMENTALES DE p - v - T.
(Equation of State of D_2O from p-v-T
Experimental Data). A. M. Mamedov. Trans-
lated into French from Teploenergetika,
7: 71-4(1960). 12p. 9093631

Chemistry; Translations MC-4

C-4 NP NSA Dep.(mc); \$1.60(fs), \$0.80(mf)
JCL or LC

N-3

Mamedov, A. M.
THERMAL COEFFICIENTS OF WATER. [1961].
Order from FT \$7.70 FT-616

Trans. of Teploenergetika (USER) 1961 [v. 8] no. 5,
p. 79-81.

DESCRIPTORS: Water, Thermodynamics.

(Physics--Thermodynamics, TT, v. 6, no. 4)

61-22995

I. Mamedov, A. M.
II. FT-616
III. Paraday Translations,
New York

Office of Technical Services

Equation of State for Heavy Water (D_2O) From
p-v-T Experimental Data, by A. M. Mamedov.

RUSSIAN, per, Teploenergetika, No 9, 1960, pp 71-75.

HLL RFS 1847

Sci - NucPhys

Jan 62

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(FDD 26092)

The Effect of the Stimulation of the Interoceptors of
the Bladder, and Rectum on Intramuscular Pressure, by
A. I. Karayev, A. M. Mamedov, 12 pp.

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Vol X, No 4, Baku, 1954, pp 297-302.

CIA/FDD U-8249

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Sci - Medicine

May 56

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All-Russian Conference on Public Health, by
A. M. Mandarov, 9 pp.
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JPRS 24243

Sci-Med & Med
Apr 64

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Formation of West Azerbaydshan and East Georgia
By A. V. Mamelov pp. 5

RUSSIAN, per Geolog Nefti i Gaza, Vol IV, No 12-A,
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New Light on Recent Tectonic Movements in
Western Azerbaijan and Eastern Georgia, by
N. G. Agabekov, A. V. Mamadov, 3 pp.

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No 5, 1961.

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Nov 62

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Reflex Regulation of the Energy Metabolism of Sheep in
Connexion with Feeding, by D. M. Mamedov, 7 pp.

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Vol XLIV, No 11, 1958, pp 1140-1145.

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Place and Time of Feeding, by D. E. Mamadov, 6 pp.

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Vol XLVII, No 12, 1957, pp 1195-1201.

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EXPERIMENTAL STUDY OF OIL RECOVERY
UNDER CONDITIONS OF CROSS-FLOW OF FLUIDS
ACROSS THE SEPARATION BOUNDARIES OF A
TWO-LAYER FORMATION. [1961] 4p.
Order from ATS \$6.85 ATS-40N55R

Trans. of Izvestiya Vysshikh Uchebnykh Zavedeni.
Neft' i Gaz (USSR) 1961, v. 4, no. 3, p. 43-46.

DESCRIPTORS: *Petroleum, Recovery, Fluid flow,
Boundary layer, Separation.

ATS-RJ-3456

(Earth Sciences--Geology. TT, v. 7, no. 3)

62-12102

I. Mamedov, G. A.
II. ATS-40N55R
III. Associated Technical
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187464

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JPRS 19812

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Jun 63

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Anisotropy of the Atomic Factor of X-Ray Scattering
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arovskii, N. P. ~~Smirnov~~ Pameday.

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Fluorescence Spectra of Aromatic Hydrocarbons of the
Biphenyl Series and Their Oxygen- and Sulfur-Contain-
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Fluorescence spectra of high-molecular-weight
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1 p.

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Vol. XIII, No 1, 1959, pp 126-130

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Mar 60

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The Crystal Structure of Foshagite - $\text{Ca}_6[\text{Si}_6\text{O}_{17}](\text{OH})_5$
by Kh S. Mamedov, N. V. Belov,

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1958, pp 901-

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Crystal Chemistry of Calcium Silicates, by
Kh. S. Mamedov.

RUSSIA, bk.

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Crystal Structure of Mica-Like Hydrous Calcium
Silicates: Okenite, Heulandite, Truscottite and Gyrolite,
New Silicate Radical $[\text{Si}_6\text{O}_{13}]_{\infty}$, by Kh. S. Kamedov,
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The Crystal Structure of Xonotlite, by K. S. Ramedov,
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On the Wohlerite-Lavenite and Rinkite-Mossandrite
Groups, by Kh. S. Mamedov, V. I. Sizomov,
N. V. Balov, 2 pp.

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The Crystalline Structure of Tricalcium Silicate
Hydrate, by Kh. S. Mamedov, R. F. Klevtsova,
N. V. Belov, 3 pp

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Kh. S. Mamedov, N. V. Delov, 4 p.

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N. V. Belov, 11 pp.

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CompTr 46360, 515

61-13149

Mamedov, Kh. S., Klevtsova, R. F., and Belov, N. V.
ON THE CRYSTALLINE STRUCTURE OF TRICAL-
CIUM SILICATE HYDRATE $\text{TSH} = 6\text{CaO} \cdot 2\text{SiO}_2 \cdot 3\text{H}_2\text{O} -$
 $\text{Ca}_6[\text{Si}_2\text{O}_7](\text{OH})_6 = \text{Ca}_4[\text{Si}_2\text{O}_7](\text{OH})_2 \cdot 2\text{Ca}(\text{OH})_2$ (O
Kristallicheskoj Struktura Gidrata Trekhal'tsiyevogo
Silkata) tr. by G. N. Gibson. Nov 59, 6p. 7 refs.
LC 926; M1825.

Order from LC or SLA mi\$1.80, ph\$1.80 61-13149

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I. Mamedov, Kh. S.

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VI. Department of Scientific
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(Gr. Brit.)

Office of Technical Services

(Physics--Solid State, TT, v. 5, no. 2)